

Silica Sand

Essential to World Growth





New World Metals Conference September 2024



Important Information

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Compliance Statement

The information in this document that relates to the estimation and reporting of the Mineral Resources and Ore Reserves for the Company's silica sand projects and metallurgical testwork is extracted from releases to ASX on 28 August 2019 and 11 November 2022 (Arrowsmith North), 17 September 2019 (Arrowsmith Central), 9 May 2023 (Arrowsmith Brand), 18 October 2019 (Muchea) and 18 August 2022 (Boyatup). The Company confirms that it is not aware of any new information or data that materially affects the information included in this document and all material assumptions and technical parameters underpinning the estimates continue to apply and have not materially changed. The Company also confirms that the form and context in which the Competent Person's findings are presented, have not been materially modified from the relevant original market announcements.



Silica Sand: The Second-most Consumed Material on Earth





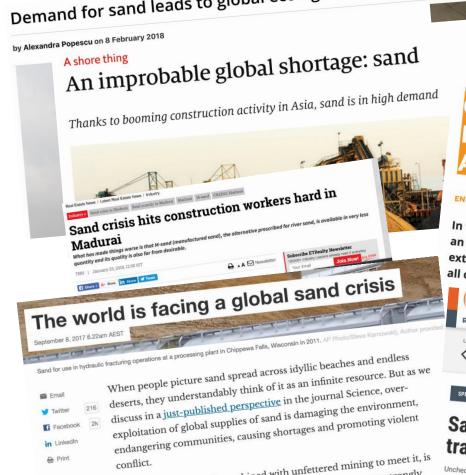
"Humans are estimated to consume nearly 50 billion tons of sand every year"

"World Construction Aggregates", 2016



VRXSILICA The world is facing a global sand supply crisis







Global Shortage of Key Resource Could Doom Key Asian Infrastructure Projects

ENVIRONMENT 03:40 07.01.2018 (updated 07:18 07.01.2018) Get short URL In the city of Kampot in southern Cambodia, the extraction of sand from an estuary on the Praek Tuek Chhu river is increasing and sand extraction is so common in Asia currently that the continent may deplete all of its sand in the not-too-distant future.



Sand mining: Growing pains of cross-border



"Sand is the main material that modern cities are made of"

Vince Beiser

"The World in a Grain" 2018

The story of sand and how it transformed Civilisation



Australian Production

Potential silica sand mining sector in Australia





Corporate Summary



Capital Structure	
Share Price	3 cps *
Ordinary Shares on Issue	628 million
Options on Issue	92 million
Market Capitalisation	Aus\$18 million*
Cash	Aus\$2.0 million**
Debt	Nil
Enterprise Value	Aus\$16 million

Shareholders	
Board and Management	12%
Top 20 Total	33%

^{*} Closing share price on ASX on 6 September 2024

^{**} Cash at 30 August 2024



Our Team

Board

Person	Role	Experience
Paul Boyatzis	Chairman	Governance: over 30 years' experience in investment, equity markets and managing public companies
Bruce Maluish	Managing Director	Technical and finance: over 40 years' experience in mining industry including previous roles as ASX MD and General Manager
Peter Pawlowitsch	Non- Executive Director	Senior executive: finance and corporate roles
David Welch	Non- Executive Director	Senior executive: responsible for strategy, business transformation and performance, commercial negotiations

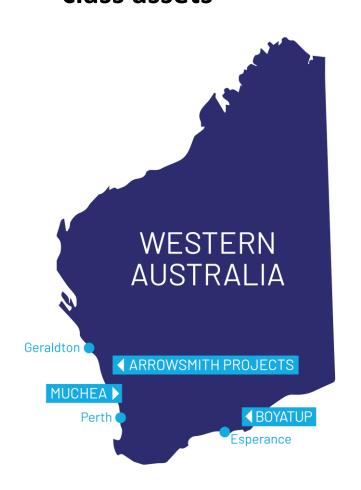
Executive

Person	Role	Experience				
Ryan Baxter	General Manager	Production: 15 years' experience in mining and construction with 10 years exporting silica sand				
David Reid	Exploration Manager	Technical: responsible for exploration and mineral processing				
Steven Papadopoulos	Commercial Manager	Legal and commercial: over 25 years' experience as corporate lawyer and commercial advisor in resources and other industrie				
Yoonil Kim	Marketing Manager	Marketing: 19 years' experience selling silica sand in the Asian market				



World Class Silica Sand Projects

Project development pipeline to ensure disciplined, staged development of worldclass assets



- ☐ Five very large scale, high grade and low impurity silica sand projects each project capable of independent operation to supply processed material to diverse markets
- ☐ Simple, low impact mining and processing
- Access to established infrastructure (logistics, power, water and gas)
 - rail lines to port run adjacent to all project tenements
 - gas pipelines run adjacent to each of the project areas
- □ Scale of projects provides long-term opportunity for silical sand export and potential glass manufacturing and downstream industries in Western Australia

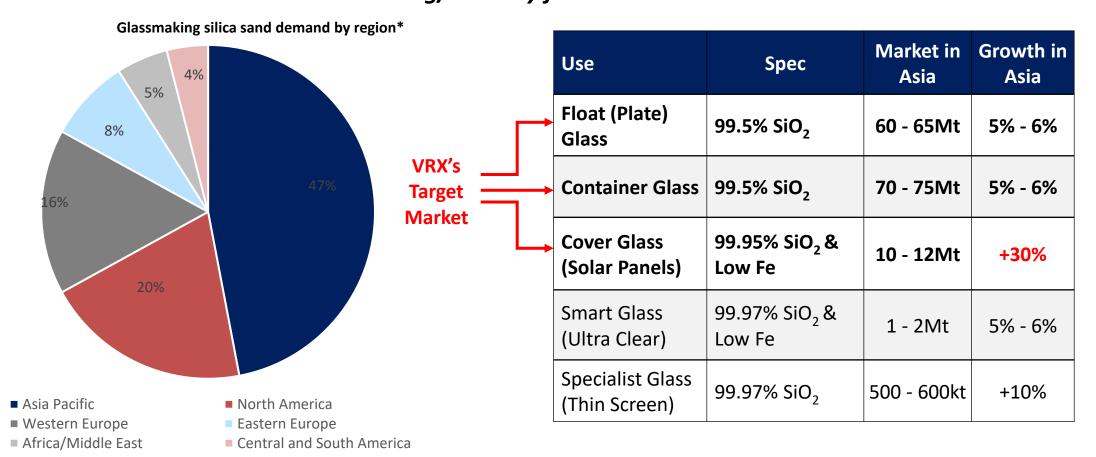


Market Outlook

Asian glass making production increasing 5-6% per year (~8 - 10Mtpa Growth)

VRX Target Market - Float, Container, Solar Panel, and;

Metal Casting/Foundry for Automobile Parts





Portfolio Highlights

WA-based, pure-play silica sand company with advanced silica sand projects

100+ year production life

- Multi-decade-scale contiguous sand deposits with significant high-grade Resources
- Most-advanced non-private silica sand projects in Australia
- Mining Leases granted over four projects with permitting and infrastructure preparations well-advanced
- Arrowsmith North to lead staggered development.
 - First production 2025 following environmental approval and construction
 - followed by Muchea, Arrowsmith Central, Boyatup and Arrowsmith Brand
- Strong interest from customers in Southeast Asia at a time of diminishing global supply and increasing demand



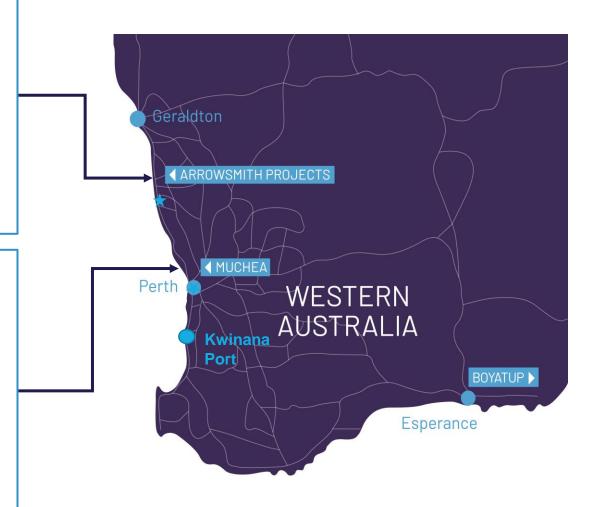
WA Leading Silica Sand Projects

Arrowsmith North (100%)

- High-grade with exceptional financial metrics
- Close proximity to port and rail infrastructure
- Glass making and foundry products
- Potential +100 year mine life:
 - JORC Proved and Probable Reserve of
 - 221Mt @ 99.5% SiO₂
- DFS underway for FID

Muchea (100%)

- Very high-grade product with outstanding financial metrics
- Well located to key port and rail infrastructure
- Specialist solar panel glass products
- Potential +100 year mine life:
 - JORC Indicated and Inferred Resource
 - 208Mt @ 99.6% SiO₂
- BFS completed Oct 2019





Arrowsmith North

Near-term development opportunity for a world-class silica sand project

- □ Production expected to commence 8-12 months following final environmental approvals
- □ 221Mt Ore Reserve @99.5% SiO₂ (100-year production) (See Reserve Table)
- ☐ Grade controlled Proved Ore Reserve 9.2Mt for first 6 years of production
- ☐ Tailored 2Mtpa processing plant with patented process circuit, revised capital estimate and DFS completed
- Access to established infrastructure
 - ☐ Unused rail line (from Eneabba to Geraldton) runs adjacent to project tenements
 - ☐ Water from Yarragadee North deep aquifer
 - Access by adjacent Brand Highway
 - ☐ Hybrid gas and solar power supply



Arrowsmith North – Updated BFS

Updated BFS Results March 2024

- Updated BFS demonstrates robust financial metrics for a World-class silica sand project
- ☐ Ungeared NPV₁₀ of \$167m based on 25 years mining of a +100 year ResourceTailored
- \square Proved and Probable Ore Reserve of 221Mt @ 99.5% SiO₂ (100 year production)
- ☐ Four products for international foundry and glassmaking industries
- Environmental approvals process nearing completion and VDT trials to commence



Responsible Mining – the VRX Way

A made-for-purpose mining method designed around continuous rehabilitation

- □ VRX has developed a unique and progressive mining method for its silica sand projects
- ☐ The Vegetation Direct Transfer (VDT) method provides a rapid and comprehensive regeneration of mined areas based on continuous rehabilitation as mining progresses
- ☐ The VDT method removes a 400mm-deep sod with topsoil containing the vast majority of native flora and invertebrate fauna remaining intact
- ☐ Root structures in the loose sand are relatively shallow at 200-300mm in depth



Arrowsmith North/Central Vegetation Kwongan Heath





Arrowsmith North Environmental and Mining Approvals

- ☐ Confirmation by Commonwealth Department of Agriculture, Water and the Environment of accredited State assessment under the EPBC Act
- ☐ State Department of Water and Environmental Regulation and Environmental Protection Authority (EPA) require a PER assessment
- □ Environmental Review Document (ERD) lodged in April 2022 and amended June 2022 and again February 2023 and published June 2023
- □ ERD Public Environmental Review period ended July 2023 and EPA provided Summary of Submissions September 2023
- □ VRX lodged the Response to Submissions (RtS) October 2023 for assessment by EPA
- ☐ Comments received March 2024 and new revised RtS to be lodged Sept 2024 following peer review
- ☐ Mining Proposal and Works Approval lodged for assessment in parallel with ERD



Muchea

Large scale, world class high-grade and low impurity silica sand project

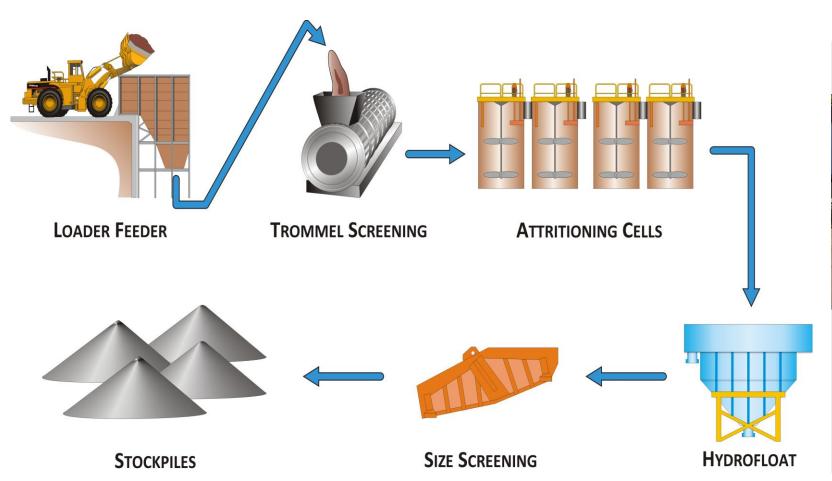
- Production to follow Arrowsmith North subject to EPA approval
- Utilise VDT and duplicate plant
- Access to established infrastructure
 - Underutilised railway connects to Kwinana (100km)
 - ☐ Grid power
 - ☐ Water from Yaragadee deep aquifer
 - ☐ Adjacent to Brand Highway
- ☐ Granted Mining Lease and Miscellaneous Licences for access
- □ Significant metallurgical testwork +99.9% SiO₂ <100ppm Fe₂O₃ after processing (high-grade, low impurity)
- ☐ Raw material for premium ultra-clear cover glass production for solar panels





Processing Flowsheet

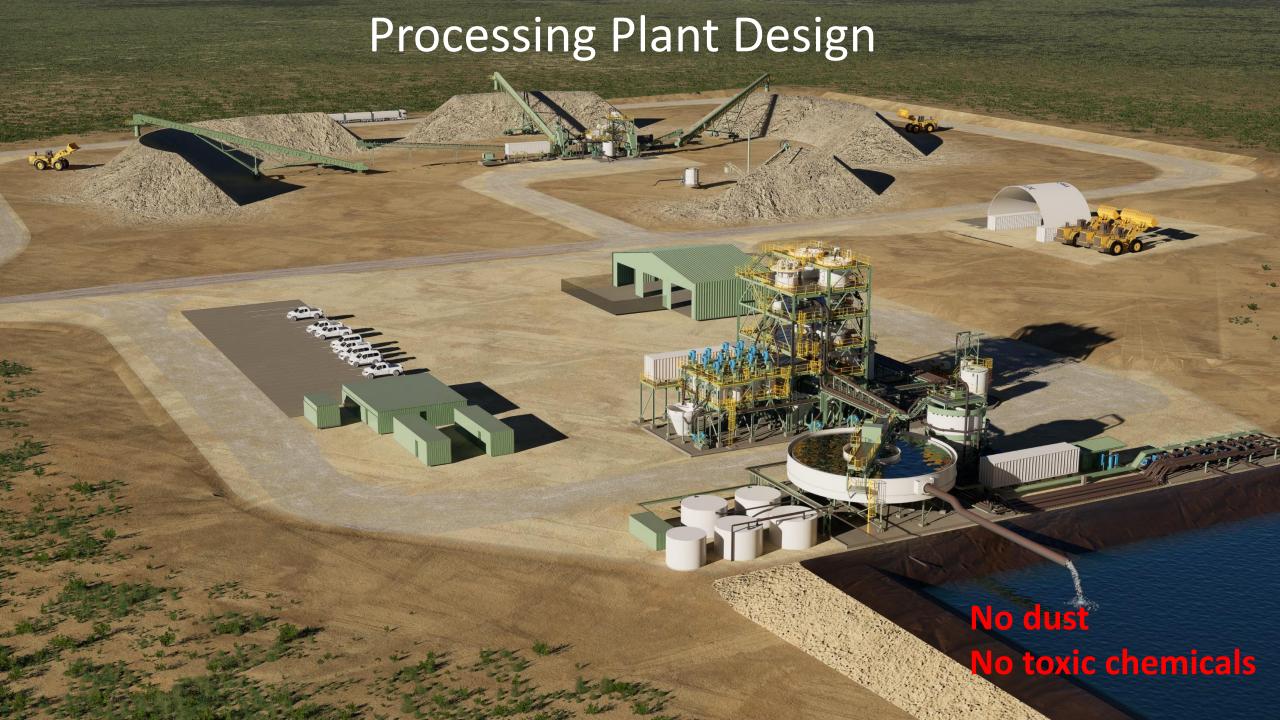
Simplified wet processing, multiple products, no dust, 2mtpa processing plant at each site



Processing Plant Design



- Arrowsmith North, Arrowsmith
 Central and Muchea to each have
 Mtpa processing capacity
- No toxic reagents required



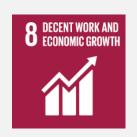


Sustainability, Environment, Social and Governance (ESG)

VRX is delivering on its ESG responsibilities aligned to the UN's Sustainable Development Goals

















CLEAN ENERGY

Utilising reliable, renewable modern energy

ECONOMIC GROWTH

Enhancing economic and productive employment

INDUSTRY INNOVATION

Building resilient infrastructure and fostering innovation

SUSTAINABLE COMMUNITIES

Respecting heritage values

RESPONSIBLE PRODUCTION

Employing sustainable mining methods

CLIMATE ACTION

Reducing emissions from production

REHABILITATION PLAN

Employing direct vegetation transfer as a unique rehabilitation method



Other Initiatives

VRX is investigating potential downstream products and cost saving initiatives

- Critical Minerals Prospectus VRX Muchea project is included in the 2024 Critical Minerals Prospectus published by Austrade (now online)
- □ IAF Grant VRX has received a grant from the State Innovation Attraction Fund to investigate the production of silica flour for LCDs
 - ☐ 1 tonne sample successfully tested by specialist laboratory in Germany
 - ☐ Samples despatched to potential buyers
- ☐ Geothermal Energy Granted a geothermal permit mid west
 - ☐ Farm-in agreement with Steam Resources to provide technical personnel and expertise for development of the project
- ☐ Trials of VDT VRX has been granted approval for VDT trials at Muchea to test the practicalities of VDT in various vegetation types
 - ☐ VRX has fabricated the modified loader bucket required for VDT



Right Time, Right Place

Opportunity for WA to capture its economic advantages of abundant silica sand and domestic gas reserves to build world-class glass manufacturing and downstream processing industries

- Very long life, high-grade silica sand supply with combined 1.4 billion tonne Resource, 96% to 99.6% SiO₂ grade
- ☐ WA domestic gas reserves and burgeoning hydrogen projects in mid-west
- Long term supply of essential raw materials and potential **green** energy for **glass** manufacturing (LNG gas/wind/solar/hydrogen)
- High-tech ultra-clear glass and HPQ production capability from Muchea
- Manufacturing of solar panels in WA for a huge and growing market in Australasia



Thank you

Bruce Maluish

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VRXSILICA Silica Sand Resources and Reserves

Mineral Resources – as at 30/06/2024

Project	Classification	Mt	SiO ₂	Al ₂ O ₃ %	Fe ₂ O ₃ %	TiO ₂	LOI %
	Indicated	29	99.6	0.1	0.03	0.1	0.2
Muchea	Inferred	179	99.6	0.1	0.02	0.1	0.2
	Total	208	99.6	0.1	0.02	0.1	0.2
Arrowsmith North	Measured	10	95.9	1.9	0.7	0.3	0.7
	Indicated	237	97.7	1.0	0.4	0.2	0.5
	Inferred	266	98.4	0.7	0.3	0.2	0.4
	Total	513	98.0	0.9	0.3	0.2	0.4
Arrowsmith Brand	Inferred	523	97.3	1.4	0.4	0.2	0.6
	Total	523	97.3	1.4	0.4	0.2	0.6
Arrowsmith Central	Indicated	28.2	96.6	1.7	0.4	0.2	0.7
	Inferred	48.3	96.9	1.5	0.4	0.2	0.7
	Total	76.5	96.8	1.5	0.4	0.2	0.7
Boyatup	Inferred	60	97.8	0.8	0.2	0.1	0.9
	Total	60	97.8	0.8	0.2	0.1	0.9

Total Mineral Resource 1,381 Million Tonnes

Mineral Reserves – as at 30/06/2024

Project	Classification	Product	Mt	SiO ₂ %	Al ₂ O ₃ %	Fe ₂ O ₃	TiO ₂ %	LOI %
Muchea	Probable	F80	10.2	- 99.9	0.02	0.008	0.03	0.1
		F80C	4.25		0.02	0.000	0.03	0.1
		F150	4.25	99.8	0.07	0.015	0.035	0.1
Mu	chea Ore Rese	rve	18.7	Million Tonnes				
		AFS20	0.8	99.5	0.25	0.07	0.05	0.1
	Droved	AFS35	3.9	99.5	0.5	0.06	0.05	0.1
	Proved -	AFS55	2.7	99.2	0.5	0.1	0.05	0.1
Arrowsmith North		Local	1.8					
	Proved Ore	9.2	Million Tonnes					
	Probable -	AFS20	24.2	99.5	0.25	0.07	0.05	0.1
		AFS35	102.5	99.5	0.5	0.06	0.05	0.1
		AFS55	51.1	99.2	0.5	0.1	0.05	0.1
		Local	34.1					
	Probable Or	212	Million	Tonne	s			
Arrowsmith North Ore Reserve		221	Million Tonnes					
	Probable -	CF400	4.2					
Arrowsmith Central		C20	8.4	99.6	0.25	0.04	0.03	0.1
		C40	4.2					
		High TiO ₂	2.2			<1%	2%	
Arrowsm	Arrowsmith Central Ore Reserve		18.9	Million	Tonne	s		

Total Ore Reserve 259 Million Tonnes